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WHAT IS CLAIMED IS:

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PATENT CLAIMS

1. Method for logging a mobile part (12) on at a base station (10), particularly in a telephone system, comprising the steps:

a) recognizing (50, 52, 54) a logon situation in that the mobile part (12) or the base station (10) determines that the mobile part (12) is not yet logged on at the base station (10);

b) generating (58) an identifier;

c) transmitting (62) the identifier via a radio connection (42) between the mobile part (12) and the base station (10); and

d) transmitting (72) a request for identification with an acknowledge signal via the radio connection (42) between the mobile part (12) and the base station (10); and

e) transmitting (78) the acknowledgment signal via a local connection (40) between the mobile part (12) and the base station (10).

2. Method according to claim 1, characterized in that the local connection (40) is an electrical or magnetic or inductive or optical connection.

3. Method according to claim 1, characterized in that the local connection (40) is an electrical connection that is produced via charging contacts (24, 38) between the mobile part (12) and the base station (10).

4. Method according to one of the claims 1 through 3, characterized in that a binary signal is transmitted via the local connection (40).

5. Method according to one of the claims 1 through 4, characterized in that, in step a), the recognition (50, 52, 54) by the logon situation is triggered when the mobile part (12) is placed onto the base station (10).

6. Method according to one of the claims 1 through 5, characterized in that, in step b), the identifier is generated as random number.

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7. Method according to one of the claims 1 through 6, characterized in that, in step b), the identifier is generated by the mobile part (12) and is transmitted to the base station (10) in step c).

8. Method according to one of the claims 1 through 7, characterized in that, in step e), the confirmation signal is generated by the mobile part (12) and is transmitted to the base station (10).

9. Method according to one of the claims 1 through 8, characterized in that, in step e), the confirmation signal is transmitted within a predetermined time interval as reaction to a request (REG__VAL__REQ) transmitted via the radio connection (42).

10. Method according to one of the claims 1 through 9, characterized by the further step:

e) transmitting (82) logon data via the radio connection (42).

11. Communication system, particularly telephone system, having at least one mobile part (12) and at least one base station (10), comprising the following features:

- a) means (14, 24, 26, 38) for recognizing (50, 52, 54) a logon situation;
- b) means (14, 26) for generating (58) an identifier
- c) first means (14, 16, 20, 26, 28, 36) for transmitting (62) the identifier via a radio connection (42) between the mobile part (12) and the base station (10); and
- d) the first means (14, 16, 20, 26, 28, 36) for transmitting (72) a request for identification with an acknowledge signal via the radio connection (42) between the mobile part (12) and the base station (10);
- e) second means (14, 22, 26, 30) for transmitting (78) the acknowledge signal via a local connection (40) between the mobile part (12) and the base station (10).

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